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June 3, 1964

SELECTED REFERENCES ON CROSSBILLS
ESPECIALLY IN RELATION TO TREE DAMAGE

Compiled by Philip B. Perkins

1. Campbell, Bruce. Crossbills. rev. ed. London, 1962. 15 p., illus., 28 refs. (Gt. Britain. Forestry Commission. Leaflet 36). Forestry abstracts 24 abstr. 4594.
2. Dawson, W. R., and others. Utilization of sodium chloride by the red crossbill. American zoologist 2 (3): 402-403, 1962. Study of metabolism.
3. Koskimies, J. Linnut ja nisäkkäät metsien vahinko- ja hyötyeläiminä. [The role of birds and mammals in the life of the forests.] Metsätaloudellinen Aikakauslehti 1(1):14-19, 1961. 15 refs. In Finnish. English summary. Discusses the loss of spruce seed caused by crossbills, squirrels....in s. Finland, ... Forestry abstracts 22 abstr. 4759.
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U.S. DEPARTMENT OF AGRICULTURE
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BUREAU OF ENTOMOLOGY

OCT 15 1961

C. & R. PREP.

June 1, 1961

RESEARCH REPORT ON THE
EFFECTS OF INSECTICIDES ON THE
BIOLOGY OF THE MOSQUITO

Compiled by Philip E. Perkins

Abstract: This report summarizes the results of a study of the effects of insecticides on the biology of the mosquito, *Anopheles gambiae*. The study was conducted in the laboratory and in the field. The results show that insecticides have a significant effect on the survival and reproduction of the mosquito.

1. Introduction: The mosquito is a major vector of malaria and other tropical diseases. The control of the mosquito population is essential for the prevention of these diseases. Insecticides are the most effective means of controlling the mosquito population.

2. Materials and Methods: The study was conducted in the laboratory and in the field. In the laboratory, the effects of insecticides on the survival and reproduction of the mosquito were studied. In the field, the effects of insecticides on the mosquito population were studied.

3. Results: The results of the study show that insecticides have a significant effect on the survival and reproduction of the mosquito. In the laboratory, the survival of the mosquito was reduced by 50% when treated with insecticides. In the field, the mosquito population was reduced by 75% when treated with insecticides.

4. Discussion: The results of the study show that insecticides are an effective means of controlling the mosquito population. However, the use of insecticides must be carefully controlled to avoid the development of resistance in the mosquito population.

5. Conclusion: The study shows that insecticides are an effective means of controlling the mosquito population. Further research is needed to determine the best methods of using insecticides to control the mosquito population.

7. Traian, I. Vătămarea conurilor de rășinoase în arboretele din Valea Sebeșului. [Damage to cones of conifer stands in the Sebeș Valley.] Revista Pădurilor 71(3):170-171, 1956. 1 ref. in Rumanian. A total of 700 hectolitres of cones were collected from trees 70-100 years old, and a sample of 300 hl. analysed for damage.... Other cones (1-2%) showed partial damage by woodpeckers, crossbills and squirrels. The total % of sound cones was 24-40. Forestry abstracts 18 abstr. 1837.
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• **QUESTIONS** 1. What is the purpose of the study? 2. What are the variables? 3. What is the hypothesis? 4. What is the conclusion?

Cost: \$1000

The Academy of Natural Sciences, Philadelphia,
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 October 1901 in date.

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1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

